crypto: af_alg - Fix incorrect boolean values in af_alg_ctx

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Summary

CVE	CVE-2025-40022
State	PUBLISHED
Assigner	Linux
Source Priority	CVE Program / NVD first with legacy fallback
Published	2025-10-24 13:15:47 UTC
Updated	2026-05-12 13:17:18 UTC
Description	In the Linux kernel, the following vulnerability has been resolved: crypto: af_alg - Fix incorrect boolean values in af_alg_ctx

Risk And Classification

EPSS: 0.000580000 probability, percentile 0.180370000 (date 2026-05-12)

Vendor Declared Affected Products

Source	Vendor	Product	Version
CNA	Linux	Linux	affected 0f28c4adbc4a97437874c9b669fd7958a8c6d6ce 3a21698ace9
CNA	Linux	Linux	affected e4c1ec11132ec466f7362a95f36a506ce4dc08c9 d382d6daf018
CNA	Linux	Linux	affected 1f323a48e9b5ebfe6dc7d130fdf5c3c0e92a07c8 54506c633569
CNA	Linux	Linux	affected 7c4491b5644e3a3708f3dbd7591be0a570135b84 8703940bd3
CNA	Linux	Linux	affected 9aee87da5572b3a14075f501752e209801160d3d 316b090c2fe
CNA	Linux	Linux	affected 45bcf60fe49b37daab1acee57b27211ad1574042 fbe96bd2542
CNA	Linux	Linux	affected 1b34cbbf4f011a121ef7b2d7d6e6920a036d5285 d0ca0df179c4
CNA	Linux	Linux	affected 6.1.154 6.1.155 semver
CNA	Linux	Linux	affected 6.6.108 6.6.109 semver
CNA	Linux	Linux	affected 6.12.49 6.12.50 semver
CNA	Linux	Linux	affected 6.16.9 6.16.10 semver
ADP	Siemens	SIMATIC S7-1500 CPU 1518-4 PN/DP MFP	affected V3.1.5 * custom
ADP	Siemens	SIMATIC S7-1500 CPU 1518-4 PN/DP MFP	affected V3.1.5 * custom
ADP	Siemens	SIMATIC S7-1500 CPU 1518F-4 PN/DP MFP	affected V3.1.5 * custom
ADP	Siemens	SIMATIC S7-1500 CPU 1518F-4 PN/DP MFP	affected V3.1.5 * custom
ADP	Siemens	SIPLUS S7-1500 CPU 1518-4 PN/DP MFP	affected V3.1.5 * custom

References

Reference	Source	Link
git.kernel.org/stable/c/54506c6335690f4ef1b9f154e34f5a604c72c1ed	416baaa9-dc9f-4396-8d5f-8c081fb06d67	git.kernel.org
cert-portal.siemens.com/productcert/html/ssa-082556.html	0b142b55-0307-4c5a-b3c9-f314f3fb7c5e	cert-portal.siemens.cor
git.kernel.org/stable/c/3a21698ace915a445bce2d0dcfc84b6d2199baf7	416baaa9-dc9f-4396-8d5f-8c081fb06d67	git.kernel.org
git.kernel.org/stable/c/d0ca0df179c4b21e2a6c4a4fb637aa8fa14575cb	416baaa9-dc9f-4396-8d5f-8c081fb06d67	git.kernel.org
git.kernel.org/stable/c/d382d6daf0184490f366562469a5673f65ee2662	416baaa9-dc9f-4396-8d5f-8c081fb06d67	git.kernel.org
git.kernel.org/stable/c/316b090c2fee964c307a634fecc7df269664b158	416baaa9-dc9f-4396-8d5f-8c081fb06d67	git.kernel.org
git.kernel.org/stable/c/fbe96bd25423e61273d8831e995260b429d850b6	416baaa9-dc9f-4396-8d5f-8c081fb06d67	git.kernel.org
git.kernel.org/stable/c/8703940bd30b5ad94408d28d7192db2491cd3592	416baaa9-dc9f-4396-8d5f-8c081fb06d67	git.kernel.org
CVE Program record	CVE.ORG	www.cve.org
NVD vulnerability detail	NVD	nvd.nist.gov

No vendor comments have been submitted for this CVE.

There are currently no legacy QID mappings associated with this CVE.